

IN CLAIMS:

CLEAN VERSION OF AMENDED CLAIMS:

B2
1. (two times amended) An electrical device with the casing (1,20,44,52) of the ignition protection kind flame proof enclosure, wherein parts, which can ignite an atmosphere capable of explosion, are disposed in the enclosure, wherein the enclosure withstands a pressure generated upon explosion of a mixture capable of explosion in an interior of the enclosure and wherein the enclosure prevents a transfer of the explosion to an atmosphere capable of explosion and surrounding the enclosure, comprising:

two casing parts (2,3,23,24, 45, 56) having wall parts (5,6,21, 22, 48, 55), wherein the wall parts (5,6,21, 22, 48, 55) disposed toward each other;

a profile clamp (4,29, 46, 53) formed shape matching to the casing parts (2,3,23,24, 45, 56) and connecting the casing parts (2,3,23,24, 45, 56) {shape matching] against the force of an explosion like internal pressure of the casing;

a slot (7, 28) safe against ignition punch furnished between the wall parts (5,6,21, 22, 48, 55) and the profile clamp (4,29, 46, 53).

B3
4. (twice amended) The electrical device according to claim 3, wherein the side webs (9,10,31, 32, 47, 54) of the profile clamp (4,29, 46, 53) disposed at a distance relative to each other are disposed at one and the

B3
cont

same side of the base web (8,30) having a rectangular cross-section under an angle, and essentially are disposed at a right angle relative to the rectangle base web (8,30).

11. (two times amended) An electrical device with the casing (1,20,44,52) of the ignition protection kind flame proof enclosure, wherein parts, which can ignite an atmosphere capable of explosion, are disposed in the enclosure, wherein the enclosure withstands a pressure generated upon explosion of a mixture capable of explosion in an interior of the enclosure and wherein the enclosure prevents a transfer of the explosion to an atmosphere capable of explosion and surrounding the enclosure, comprising:

two casing parts (2,3,23,24, 45, 56) having wall parts (5,6,21, 22, 48, 55), wherein the wall parts (5,6,21, 22, 48, 55) disposed toward each other;
a profile clamp (4,29, 46, 53) formed shape matching to the casing parts (2,3,23,24, 45, 56) and connecting the casing parts (2,3,23,24, 45, 56) against the force of an explosion like internal pressure of the casing;
a slot (7, 28) safe against ignition punch furnished between the wall parts (5,6,21, 22, 48, 55) and the profile clamp (4,29, 46, 53);
wherein a face (13,37) of a base web (8,30) of the profile clamp (4,29, 46, 53) together with an outer side (14,36) of at least one of the casing parts (2,23, 24, 56) forms a substantially common plane.

14. (two times amended) An electrical device with the casing (1,20,44,52) of the ignition protection kind flame proof enclosure, wherein

B5

B5
cat

parts, which can ignite an atmosphere capable of explosion, are disposed in the enclosure, wherein the enclosure withstands a pressure generated upon explosion of a mixture capable of explosion in an interior of the enclosure and wherein the enclosure prevents a transfer of the explosion to an atmosphere capable of explosion and surrounding the enclosure, comprising:

two casing parts (2,3,23,24, 45, 56) having wall parts (5,6,21, 22, 48, 55), wherein the wall parts (5,6,21, 22, 48, 55) disposed toward each other;
a profile clamp (4,29, 46, 53) formed shape matching to the casing parts (2,3,23,24, 45, 56) and connecting the casing parts (2,3,23,24, 45, 56) against the force of an explosion like internal pressure of the casing;
a slot (7, 28) safe against ignition punch furnished between the wall parts (5,6,21, 22, 48, 55) and the profile clamp (4,29, 46, 53);
an additional wall (25) disposed between the two wall parts (23, 24) of the casing (20).

B6

17. (two times amended) An electrical device with the casing (1,20,44,52) of the ignition protection kind flame proof enclosure, wherein parts, which can ignite an atmosphere capable of explosion, are disposed in the enclosure, wherein the enclosure withstands a pressure generated upon explosion of a mixture capable of explosion in an interior of the enclosure and wherein the enclosure prevents a transfer of the explosion to an atmosphere capable of explosion and surrounding the enclosure, comprising:

two casing parts (2,3,23,24, 45, 56) having wall parts (5,6,21, 22, 48, 55), wherein the wall parts (5,6,21, 22, 48, 55) disposed toward each other; a profile clamp (4,29, 46, 53) formed shape matching to the casing parts (2,3,23,24, 45, 56) and connecting the casing parts (2,3,23,24, 45, 56) [shape matching] against the force of an explosion like internal pressure of the casing; a slot (7, 28) safe against ignition punch furnished between the wall parts (5,6,21, 22, 48, 55) and the profile clamp (4,29, 46, 53); wherein ends of two profile clamps (4,29, 46, 53) abut to each other in a casing corner region such that a planar or nonplanar ignition punch safe profile slot (43,60) is formed.

18. (two times amended) An electrical device with the casing (1,20,44,52) of the ignition protection kind flame proof enclosure, wherein parts, which can ignite an atmosphere capable of explosion, are disposed in the enclosure, wherein the enclosure withstands a pressure generated upon explosion of a mixture capable of explosion in an interior of the enclosure and wherein the enclosure prevents a transfer of the explosion to an atmosphere capable of explosion and surrounding the enclosure, comprising:

two casing parts (2,3,23,24, 45, 56) having wall parts (5,6,21, 22, 48, 55), wherein the wall parts (5,6,21, 22, 48, 55) disposed toward each other; a profile clamp (4,29, 46, 53) formed shape matching to the casing parts (2,3,23,24, 45, 56) and connecting the casing parts (2,3,23,24, 45, 56) against the force of an explosion like internal pressure of the casing;

B6
Con'd

a slot (7, 28) safe against ignition punch furnished between the wall parts (5,6,21, 22, 48, 55) and the profile clamp (4,29, 46, 53); wherein a profile is formed at least one end of the profile clamp (4,29, 46, 53) and wherein at an end of a second profile clamp (4,29, 46, 53), in each case a profile is formed out of projections (41) and recesses (42), wherein the projections (41) of the one profile clamp (4,29, 46, 53) engage into the recesses (42) of the other profile clamp (4,29, 46, 53) and wherein an ignition punch safe profile slot (43) is formed between the projections (41) and the recesses (42).

21. (two times amended) An electrical device with the casing (1,20,44,52) of the ignition protection kind flame proof enclosure, wherein parts, which can ignite an atmosphere capable of explosion, are disposed in the enclosure, wherein the enclosure withstands a pressure generated upon explosion of a mixture capable of explosion in an interior of the enclosure and wherein the enclosure prevents a transfer of the explosion to an atmosphere capable of explosion and surrounding the enclosure, comprising:

two casing parts (2,3,23,24, 45, 56) having wall parts (5,6,21, 22, 48, 55), wherein the wall parts (5,6,21, 22, 48, 55) disposed toward each other;
a profile clamp (4,29, 46, 53) formed shape matching to the casing parts (2,3,23,24, 45, 56) and connecting the casing parts (2,3,23,24, 45, 56) against the force of an explosion like internal pressure of the casing;
a slot (7, 28) safe against ignition punch furnished between the wall parts (5,6,21, 22, 48, 55) and the profile clamp (4,29, 46, 53); wherein a corner

B7
Cont

region of the profile clamp is formed polygonal and exhibits at least two ignition punch safe profile slots (43).
